Air Training Systems

Live Training

Elbit Systems™
Aerospace

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Revolutionary Aircraft Embedded Training Systems

Elbit Systems' suite of Aircraft Embedded Training Systems, including Embedded Virtual Avionics (EVA™) and In-Flight Electronic Warfare Simulator (IFEWS™), equip fighter aircraft, trainer aircraft, transport aircraft and helicopters with leading-edge advanced airborne simulation, to provide maximum training effectiveness and unparalleled cost-efficiency.

Embedded Training for Trainer Aircraft

- Transforms basic/advanced trainer aircraft into 5th Generation virtual fighter aircraft
- Equips trainer aircraft with the most advanced avionics and tactical training systems
- High fidelity training for operation of cutting-edge avionics, sensors and weapons
- Minimal integration effort - packaged as a fully qualified airborne Line Replacement Unit
- Integrated with Elbit Systems' TARGO™ helmet-mounted avionics
- Significant increase in training effectiveness and reduction in hourly training costs
- Proven solution successfully installed in many of the world's leading trainer aircraft

Embedded Training for Fighter Aircraft

- Stimulates real aircraft sensors (RADAR, EW suite etc.) providing a hybrid real and virtual environment
- Manages complete virtual scenario comprised of user-defined air, land and naval Computer Generated Forces
- Reduced need for "Red Air" opponents
- Records the flight providing a complete synchronized reconstruction during post-flight debrief
- Immerses the air warrior within a truly demanding training experience, in a safe environment
- Installed and operational with leading air force, fighter combat aircraft

Embedded Training for Helicopters

- Ensures helicopter pilots and commanders attain the most comprehensive training
- Provides extensive sensor simulation including Electronic Warfare suite, Electro-Optic and Thermal Imaging systems, RADAR, FLIR, ESM, C4I Systems, Active/Passive Sonar and CSAR
- Provides wide-ranging weapon simulation including Air-to-Surface Missiles, Rockets, Torpedoes and Chaff/Flare interaction
- Simulates legacy and new threat scenarios including laser, IR/EO guided threats and RF-guided missiles
- Integrated with real helicopter systems and sensors, or delivered as a standalone unit on-board the helicopter
- Installed and operational with international customers

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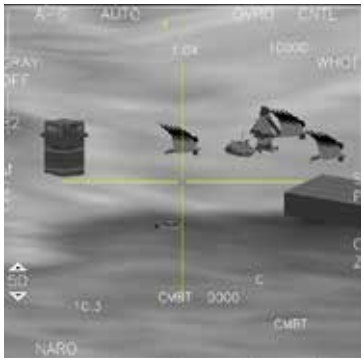
Key Benefits

- Complete embedded simulation suite for all platforms
- Provides virtual avionics, weapons, sensors and synthetic environment
- Advanced, customizable, and realistic training experience
- Advanced post-flight debriefing capabilities
- Air Combat Maneuvering Instrumentation (ACMI) capabilities
- Data link compatible for multi-participant distributed training
- Maximized operational readiness
- Packaged in a minimal integration configuration
- Proven, unmatched cost savings model and Return on Investment (ROI)
- Infrastructure and logistics-free deployment

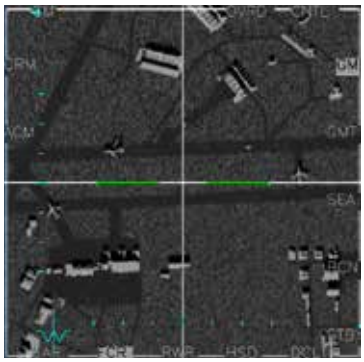
Key Features

- Complete hardware, LRU or embedded card configurations
- Core-embedded simulation software
- User configurable from exercise planning, doctrine definition through to debriefing
- Simulation software adapted to specific requirements
- Planning, real-time monitoring and debriefing software and hardware
- Minimal integration and installation
- Training to acquire the maximum benefit from the system
- Built-in growth capability
- Life cycle support and maintenance



FLIR Sensor

EW Self Protection Suite



Synthetic Aperture RADAR

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